IP Camera
User Manual

Reference :
CAMH04IPWE
V3.3

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1 WELCOME

IPCAM is an integrated wireless IP Camera solution. It combines a high quality digital video Camera with network connectivity and a powerful web server to bring clear to your desktop from anywhere on your local network or over the Internet.
The basic function of IPCAM is transmitting remote video on the IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using MJPEG hardware compression technology.
The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device become more simply by using network to achieve the remote configuration, start-up and upgrade firmware.
You can use this IPCAM to monitor some special places such as your home and your office. Also controlling the IPCAM and managing image are simple by clicking the website through the network.
NOTE: You can use the IP Camera Step by Step(details: 3.1).

1.1 Features

- Powerful high-speed video protocol processor
- High-sensitivity 1/4" CMOS sensor
- 300K Pixels
- IR night vision(Range:3~5m)
- Optimized MJPEG video compression for transmission
- Multi-level users management and passwords definition
- Embeded Web Server for users to visit by IE
- Support wireless network (Wi-Fi/802.11/b/g)mobile
- Supporting Dynamic IP (DDNS)and UPnP LAN and Internet(ADSL,Cable Modem)
- Giving alarm in cause of motion detection
- Support one-way (I/O) alarm connection
- Supporting image snapshot
- Support multiple network protocols:HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP
- Support remote system update

Advanced Features

Multi-Protocol support and Transportation
IPCAM supports Multi-Protocol such as TCP/IP, SMTP and HTTP. Sending the image to your mailbox automatically when the IPCAM is triggered.
Motion Detection
Your may use the internal Motion Detection function or external sensor to trigger images recording and transportation.

Alarm sensor input/output

The detection sensor sends an alarm and records it by itself when there is a fire or accident. A message as an email is send to you by this sensor. (The input/output discreteness can be chosen)

DDNS support

Using the IPCAM in the condition which including ADSL and IP change often is more convenient, because IPCAM provides dynamic DNS function.

Advanced User Management

Only allowing authorized users access to real-time images of the IP Camera.

1.2 Packing List

Untie the pack and check the items contained against the following list:

- IP Camera×1
- Wi-Fi Antenna×1(only wireless IPCAM user)
- DC Power Supply×1
- User Manual×1
- CD×1（Include Wireless IP Camera Driver、IP camera tool）
- Network Cable×1
- Mounting bracket×1(option)

Optional : One Wire for alarm input/output

NOTE:Contact us immediately in the case of any damaged or short of contents.

1.3 Product views

1.3.1 Front View

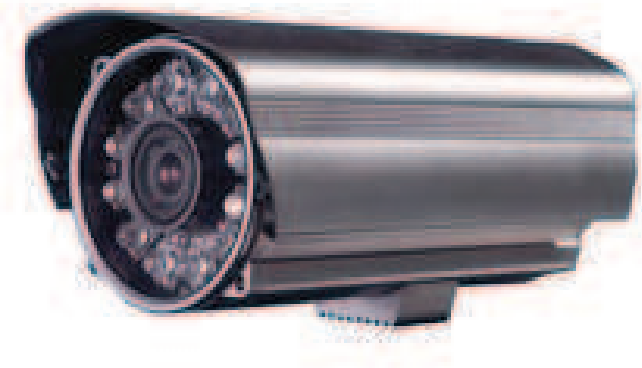


Figure 1.1

1 **Sensitive Hole**

2 **Infrared LED**

3 **Network Indicator LED** If there is network activity, the LED will blink.

4 **LENS** CMOS sensor.You can turn around the lens manually to adjust the focus range.

5 **Built-in Mic**

1.3.2 Interface

Figure 1.2

LAN : RJ-45/10-100 Base T

DC5V : 5V/2A Power supply

Figure 1.3

RESET BUTTON: Press and hold down the RESET BUTTON for 5 seconds.Release the power button and IP camera will be reset back to the factory default parameter.

1.4 PC System Requirements

System configuration requirements: (Example for view four IP Camera)

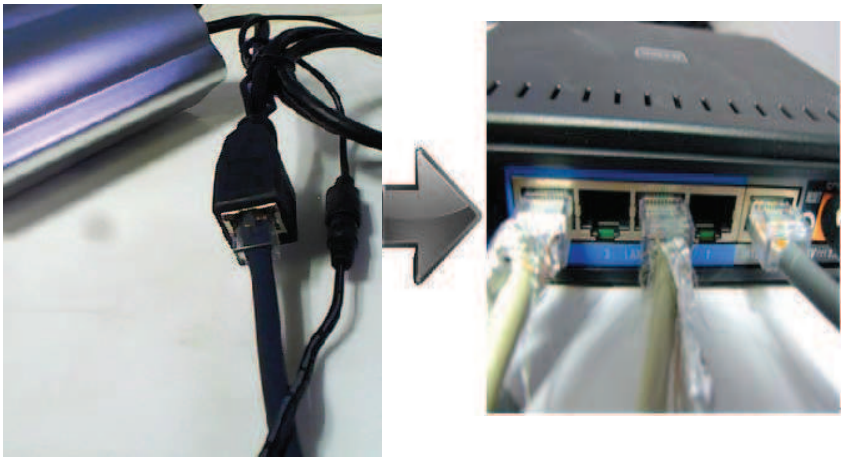
CPU: 2.06GHZ or above Memory: 256M or above

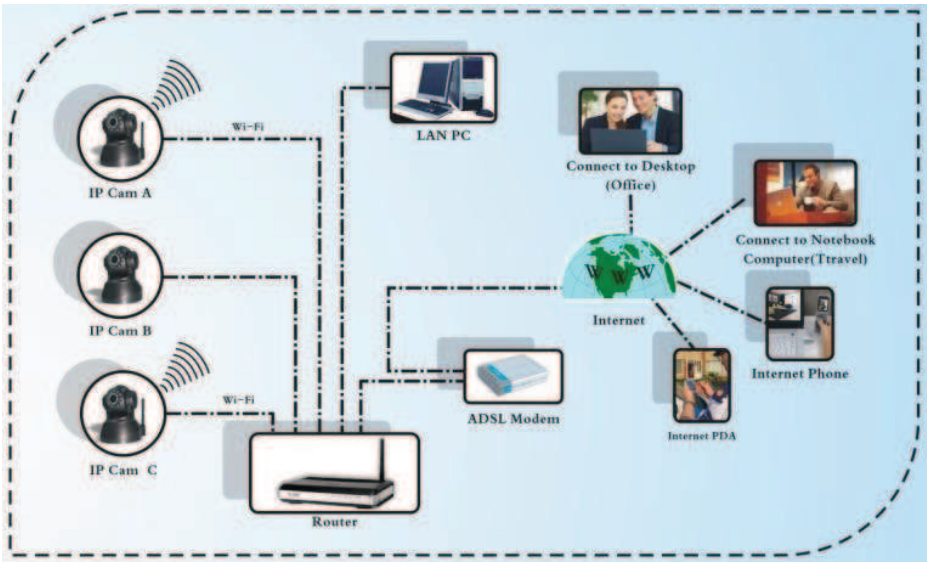
Network Card: 100M or above Display Card: 64M or above memory
Recommendable Operating System: Windows2000 or Windows XP

1.5 Hardware Instruction

Follow the steps below to set up your camera hardware. Make sure to follow each step carefully to ensure that the camera operates properly.

1) Plug the network cable into the camera and then into your Cable/DSL router.
2) Plug the power adapter into the camera and then into the power outlet.





CAUTION: Make sure to only use the power adapter supplied with IPCAM. Using a non-approved power adapter may damage the camera.

3) The camera takes approximately 30 seconds to start up before it displays an IP address on the **IP Camera Tool**(details: 2.1).

4) When the camera is powered and network cable plug correctly.It's head will turn around and the Network Indicator LED is blank.

1.6 Software installation

Software installation is the key to the successful use of this product.

1 Open the CD,find the software as instruction;

2 Double click **IPCamSetup.exe** and install the software as instruction.

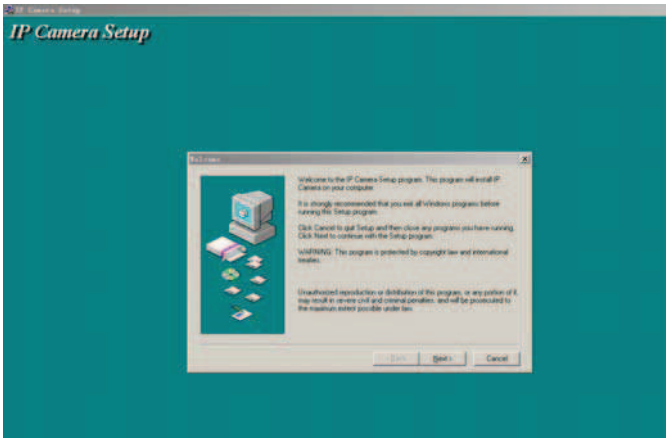


Figure 1.4

3 Only click **Next**,you will complete the software installation.

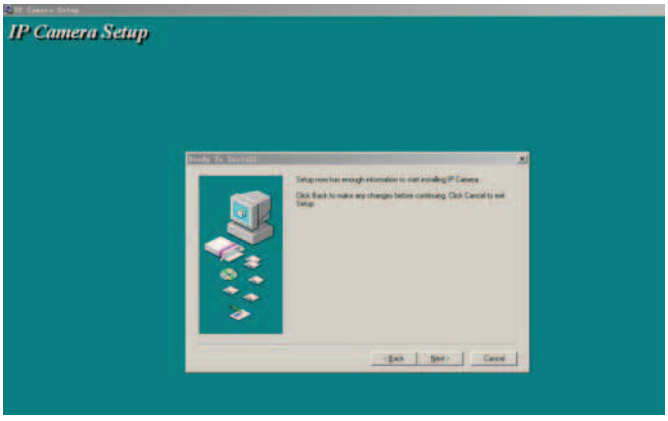


Figure 1.5

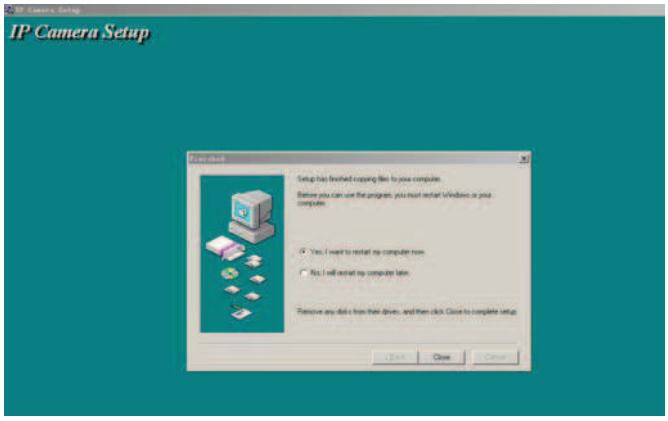
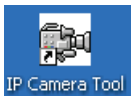


Figure 1.6

The computer restarts upon installation completion and an icon 

appears on the desktop automatically.

NOTE:Before installing and using the product, please read the following precautions carefully and make sure they are fully understood.

Use only the power adapter attached with the product. Use of unauthorized power adapter may cause damage to your IP Camera.

IP Camera terminal shall be installed in an indoor environment.

2 SOFTWARE OPERATION

2.1 IP Camera Tool

When the Device has been mounted properly, you can double click the icon “IP Camera Tool” and a dialog box as Figure 2.1 will pop up.

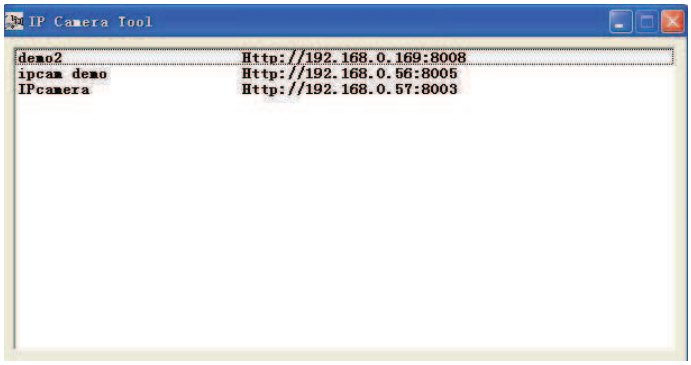


Figure 2.1

Note: The software searches IP Servers automatically over LAN.

There are 3 cases:

1 No IP Camera found within LAN. After about 1 minute search, the Result Field will show “not found IP Server” and the program shut automatically;

2 IP Cameras having been installed within LAN. All the IP Cameras will be listed and the total number is displayed in the result field as shown in Figure 2.1.

3 The IP Cameras installed within LAN do not share the same subnet with the monitoring PC. A prompt as shown in result field (prompt: Subnet doesn’t match,dbclick to change!). Click the left mouse button to choose the prompt and click the right mouse, choose **Network Configuration** to set the IP address of the Camera to the same subnet as LAN.

Five Options

Choose the IP Camera list and Click right mouse button,there are five options,Basic Properties, Network Configuration, Upgrade Firmware, Refresh Camera List, Flush Arp Buffer as shown 2.2.

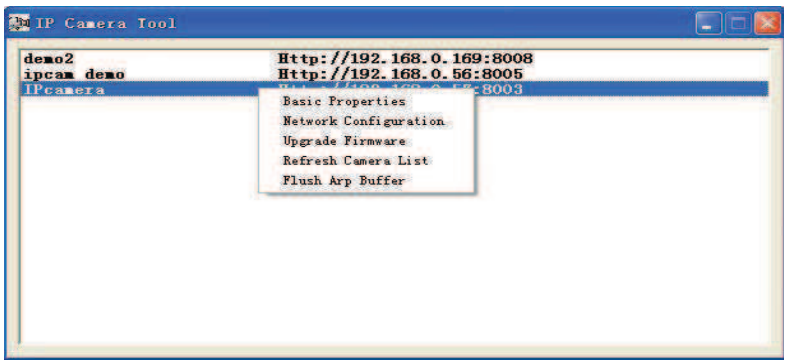


Figure 2.2

- **Basic Properties**

There are some device informations in the Basic Properties, such as **Device ID, System Firmware Version, Web UI Version.**

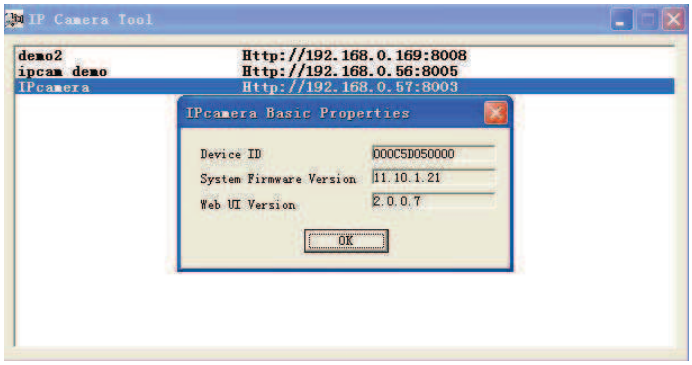


Figure 2.3

- **Network Configuration**

In this page, you can configure the Netwrok parameter.

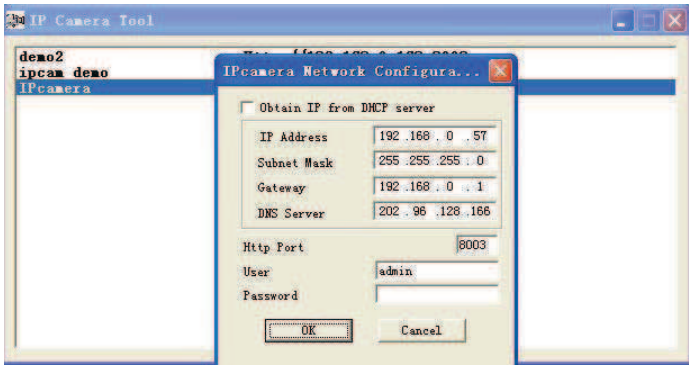


Figure 2.4

DHCP checkbox:if checked, the device will obtain IP from DHCP server (To be make sure the Router which the device connect with has DHCP function).

IP address: Fill in the IP address assigned and make sure it is in the same subnet as the gateway.(i.e. the first three sections are the same)

Mask: The default subnet mask of the equipment is: 255.255.255.0

Gateway: Make sure it is in the same subnet with PC IP address. Default Gateway address is 192.168.0.1

DNS: IP address of IPS network provider.

Port: LAN port assigned for the equipment, usually 80

User & Password : Default administrator username/password: admin/No password

Enable **Using Dhcp** the system will assign a reasonable IP address for your equipment only if your gateway supports DHCP (It is the case with most gateways).

NOTE: when the prompt"ubnet doesn't match,dbclick to change!"ppeared,please set the IP Camera IP address once again.

- **Upgrade Firmware**

Enter the correct User and Password to upgrade system Firmware and Web UI.

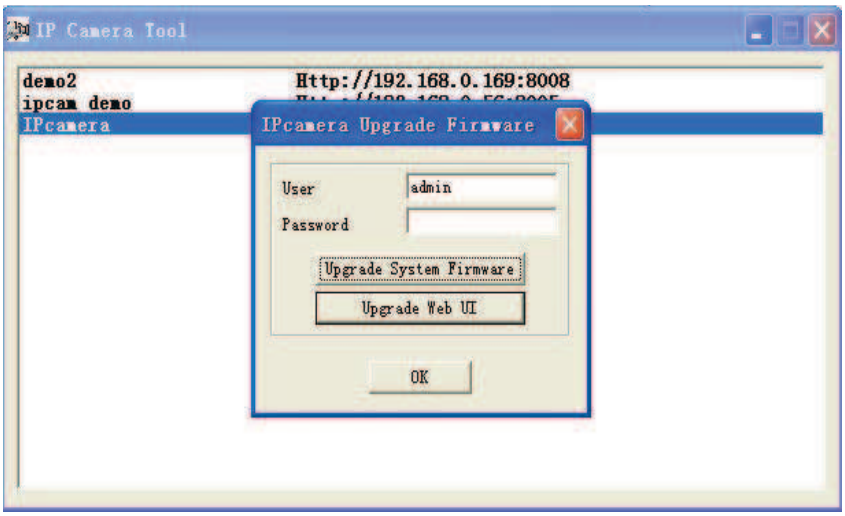


Figure 2.5

- **Refresh Camera List**

Refresh camera list manually.

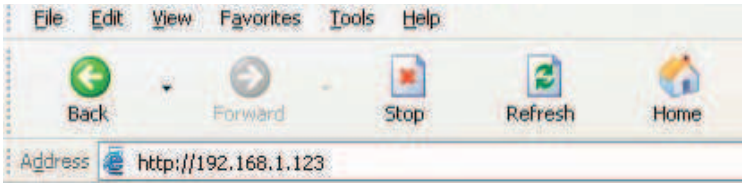
- **Flush Arp Buffer**

When cable network and wireless network of the device both are fixed IP address. There is a a problem you may encounter is can search the camera IP but can't open the camera web page.you may try to use flush arp buffer.

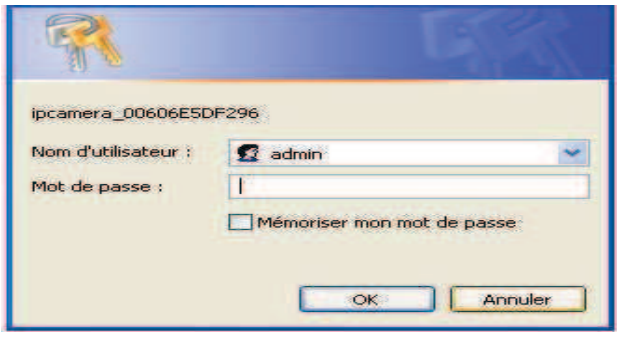
2.2 Camera Login

You can access the camera through **IP Camera Tool** or **IE** directly.

1) Double click the IP address of the IP Camera listed(Figure 2.1).IE will be opened automatically and display the camera login page.



2) Access the camera by IE browser directly, type in the camera's IP address.for example:



3) The Camera Login page pop-up.

enter your account and password on the login page as shown in Figure 2.6. By defaultÿadministrator's username is: admin and no password.

pa

English Deutsch French Italian Spanish Polish Portuguese Russian Chinese(S) Chinese(T)
ActiveX Mode (For IE Browser)
Sign in
Server Push Mode (For FireFox, Google Browser)
Sign in
attention:
propose using 1024 * 768 screen resolution

Click "**Sign in**" to enter the monitoring page(Figure 2.7).You can set the username and password as Administrator, Operator or Visitor.

2.3 For Visitor

Figure 2.7

For example: if is bright ,the first route is on Detection(Motion Detection).

If you want to detect 4 views , need to click this ico .The first you should add more deivce.see details in **2.5.1 Multi-Device Settings.**

OSD: Display date and time on the video. You can disable the OSD function or choice other color. (OSD:on-screen display)

REC: Click ico into REC mode, is stop. **Snapshot:** Click ico to snap the picture.

Note:

the record file name is: ***device Alias_ Current time.Avi***

For example: *IPCAM_20081211134442.Avi*

It means the device alias is IPCAM and its record's end time is : At 13:44:42 on December 11, 2008

When use **motion detection** and checked **Send Mail on Alarm.** The name of the picture received in mailbox is like this: ***device id(Alias)_ Current time.jpg***

For example: *00606E576A02(IPCAM)_m20081216212745.jpg*

It means the device ID is 00606E576A02, the device alias is IPCAM and its picture's time is : At 21:27:45 on December 16, 2008

2.4 For operator

When login as operator or administrator,you can enter the **For Operator.**

Figure 2.8

Flip: To see the flip image.
Mirror: To see the mirror image.
Resolution:VGA（640 X 480）/ QVGA(320 X 240)
Work mode:50Hz/60Hz/Outdoor
Color parametar:click + or − can adjust the brightness and contrast

2.5 For Administrator

When you login as administrator, "**For Administrator**" is enabled.

Device Info: You can find the information about Device ID,Firmware Version and Embeded Web UI Version.

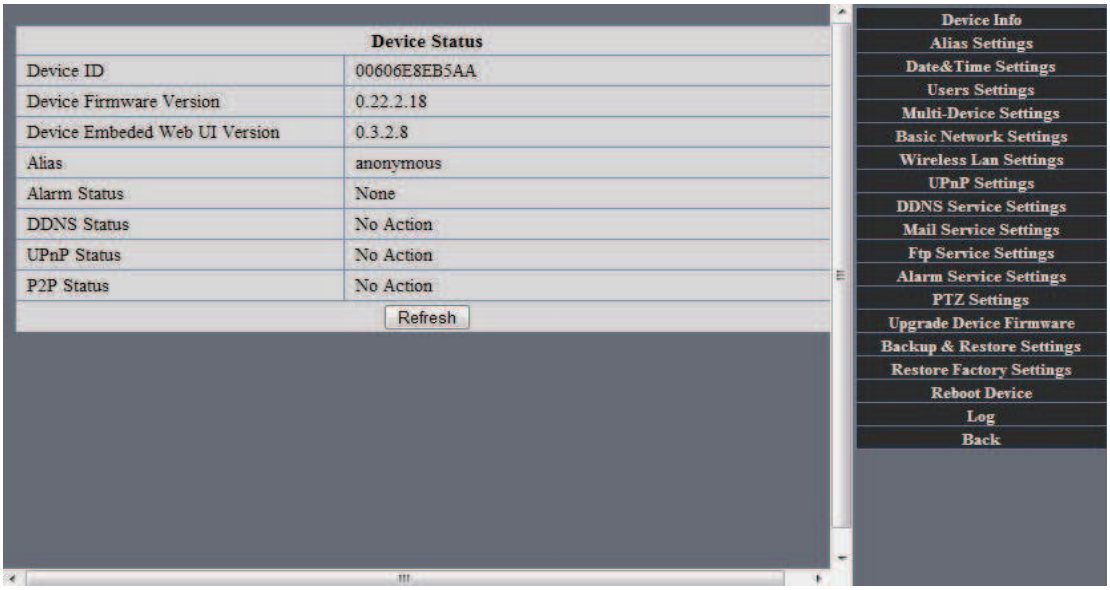


Figure 2.9

Alias Settings: You can Input the new name as you like.

Data&Time Settings: Data&Time Settings page.

Users Settings: Eight accounts are acceptable for this system. Here the eight users can configure their user names and password as Administrator, Operator or Visitor.

- **Visitor:** In this mode,you can only view.
- **Operator:**You can control the direction of IP Camera and set some parameter.
- **Administrator:**You can setup the advanced configurations of the IP Camera.

UpnP Settings: If you access IP Camera,to be make sure **UpnP Status** is Succeed.

Upgrade Device Firmware: Upgrade Device Firmware and device embeded web UI sofeware in this page.

Restore Factory Settings: Restore factory settings of the device.

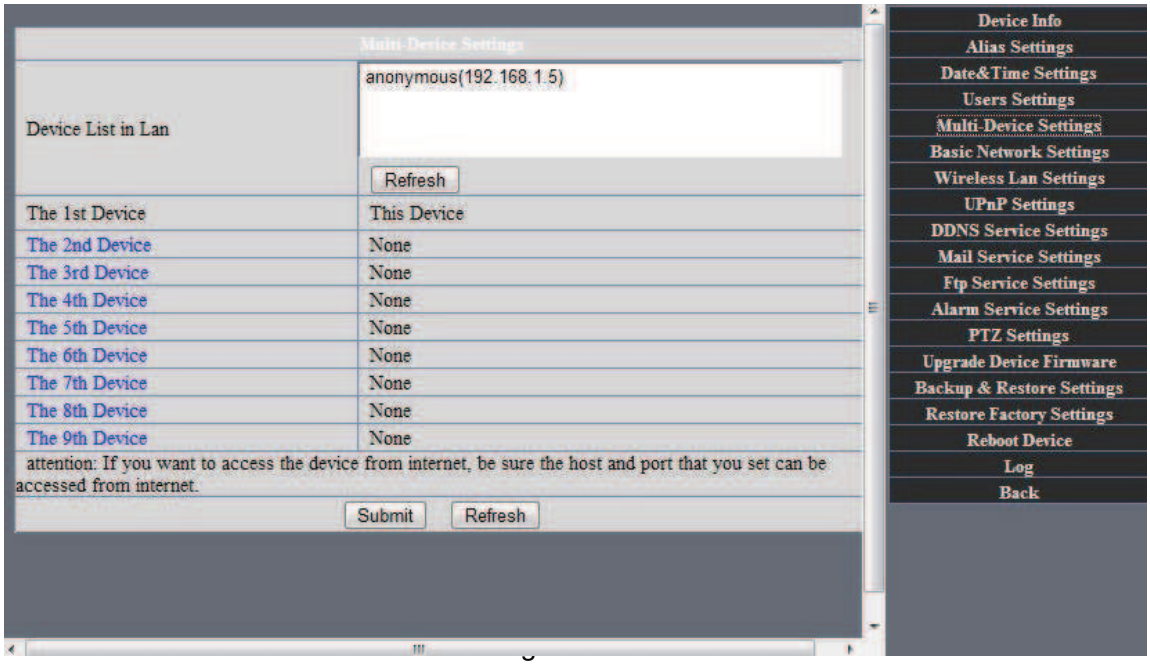
Reboot Device: Reboot the device.

Back: Back to Monitoring Mode.

2.5.1 Multi-Device Settings

- Add cameras in LAN

In the Multi-Device Settings page,you can see all devices searched in LAN.The 1st Device is this device deault.You can add more cameras list in LAN for monitoring. This Web software supports up to 4 IP Cameras online simultaneously.Click "**The 2ND Device**" and Double click the item in the "**Device List in Lan**", Alias、Host and Http Port will fill in automatically.Enter the correct username and password then click "**add**".Add more cameras in the same way.



- Add cameras in the Internet

Firstly,make sure the camera added can access in the Internet with the IP address or DDNS domain.like this:http:/219.133.200.165: 81 or http://IPCAM.dyndns.org:9008

You can enter the **Host**: 219.133.200.165 **port**: 81 or **Host**: IPCAM.dyndns.org **port**: 81.Enter the correct username and password then click "**add**".Add more cameras in the same way as shown in Figure 2.11.

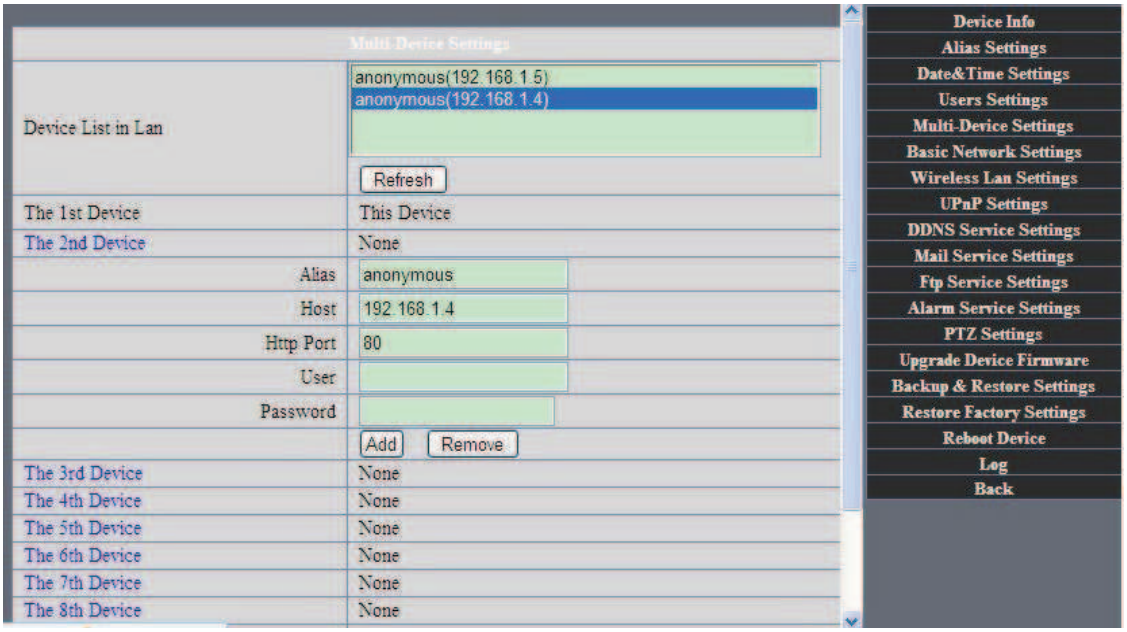


Figure 2.11

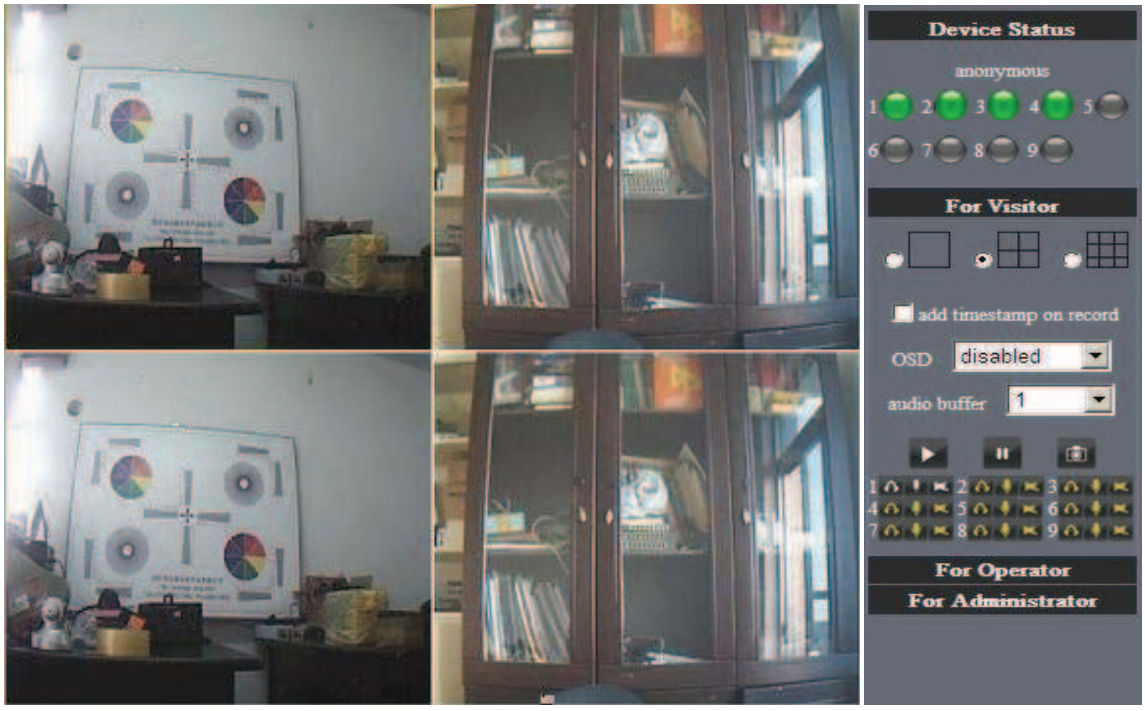


Figure 2.12

2.5.2 Network Settings

- Basic Network Settings

If the router that the IP camera connect has DHCP function, you can choice “Obain IP from DHCP Server” else fill in the network parameters manually.

Http Port: In most cases, you can leave this value as 80, however, if your Internet Service Provider blocks this port, you may switch to another port number such as 8005.

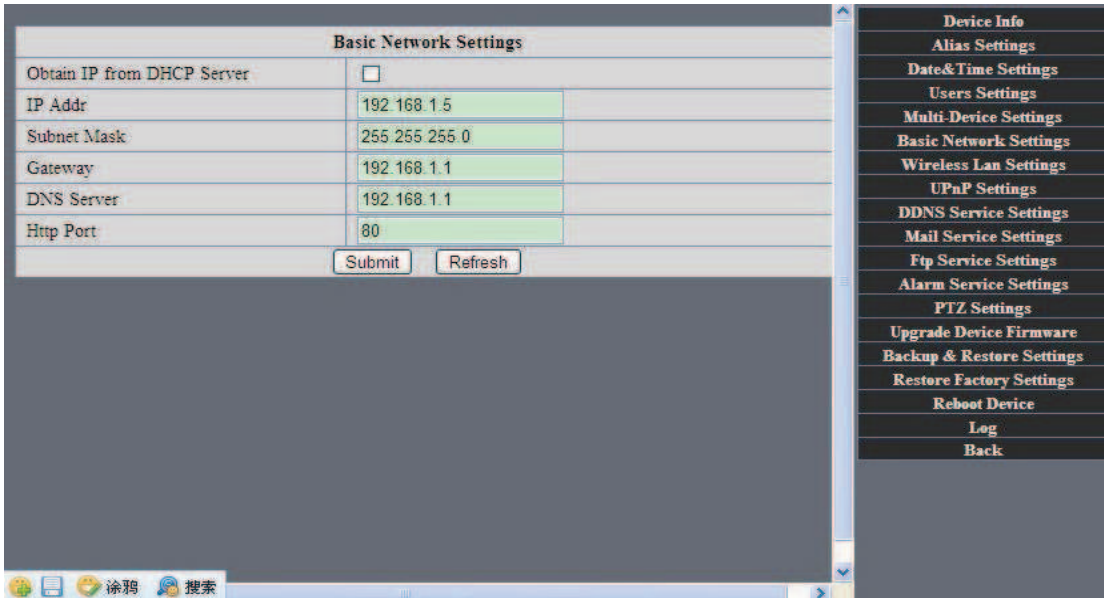


Figure 2.13

- Wireless Lan Settings

Please enter the wireless net setting page of the wireless Router to find out SSID,Channel, Encryption,Authetication

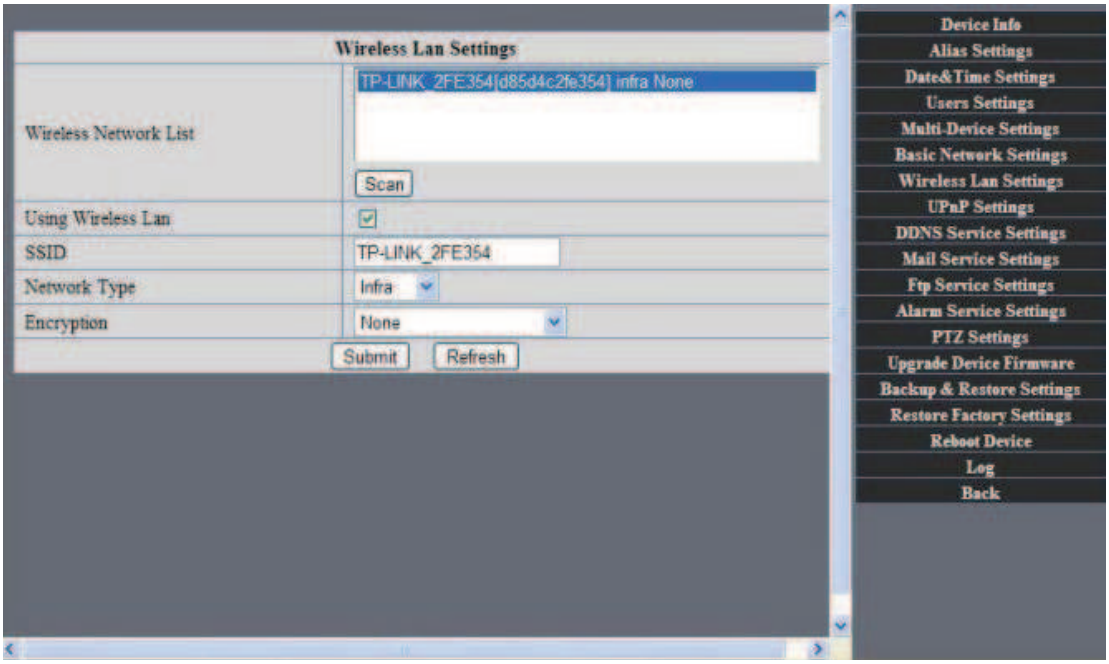
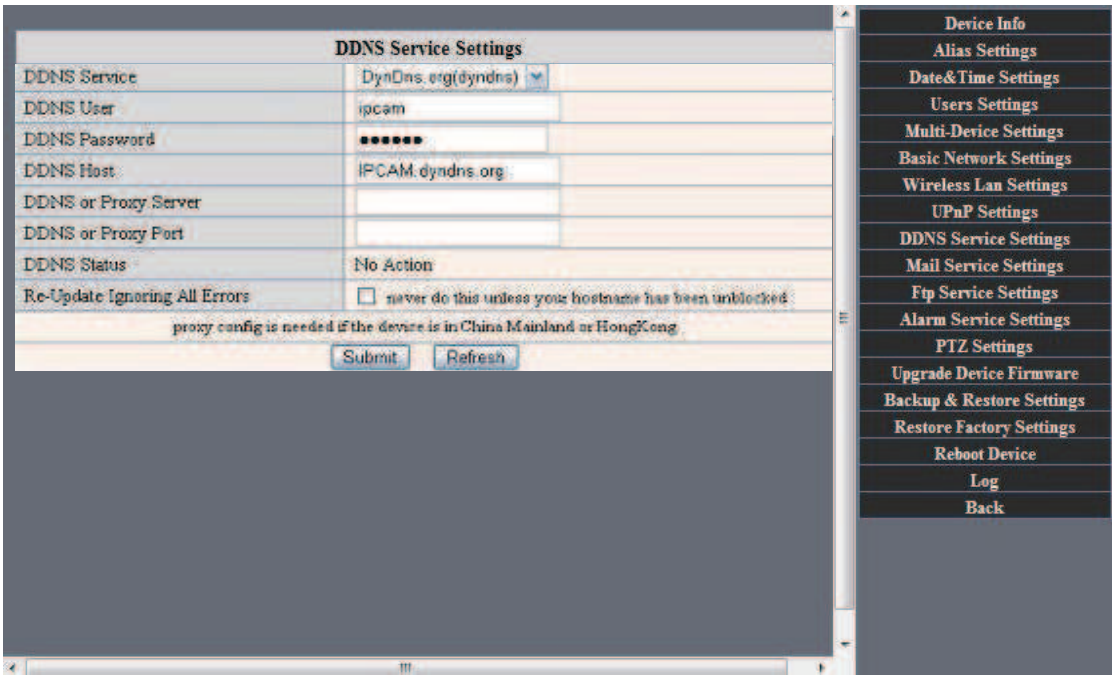


Figure 2.14

2.5.3 DDNS Service Settings

DDNS Service: The system supports protocols from some DDNS providers: Dyndns.org.
User and Password: the user name and password used when applying for the domain name. (details: 4.1.6)
DDNS Host: the Domain Name
DDNS or Proxy Server: If you access the DDNS host through a proxy,you should input the Proxy IP.
DDNS or Proxy Port: Proxy Port



2.5.4 Mail and FTP Service

Note: When **Alarm Service Settings**—> **Send Mail on Alarm** is check,the Mail Service takes effect.

Configure the E-mail box to receive and send mails. The E-mail box is used for receiving the images sent after alarm and the system IP address after successful dial-up.

Sender: This device use the sender mailbox to send mails.

Receiver: To receive the mail from the Sender.You can set up to 4 receiver mailbox.

SMTP Server:the SMTP server for the sender mailbox

Need Authentication:if the sender mailbox need authentication, you should check it then input the SMTP username & Password.

Mail test: Please set the Mail parameter and click "Submit" first. There are Mail test result.

1 Can not connect to the server

2 Network Error. Please try later

3 Server Error

4 Incorrect user or password

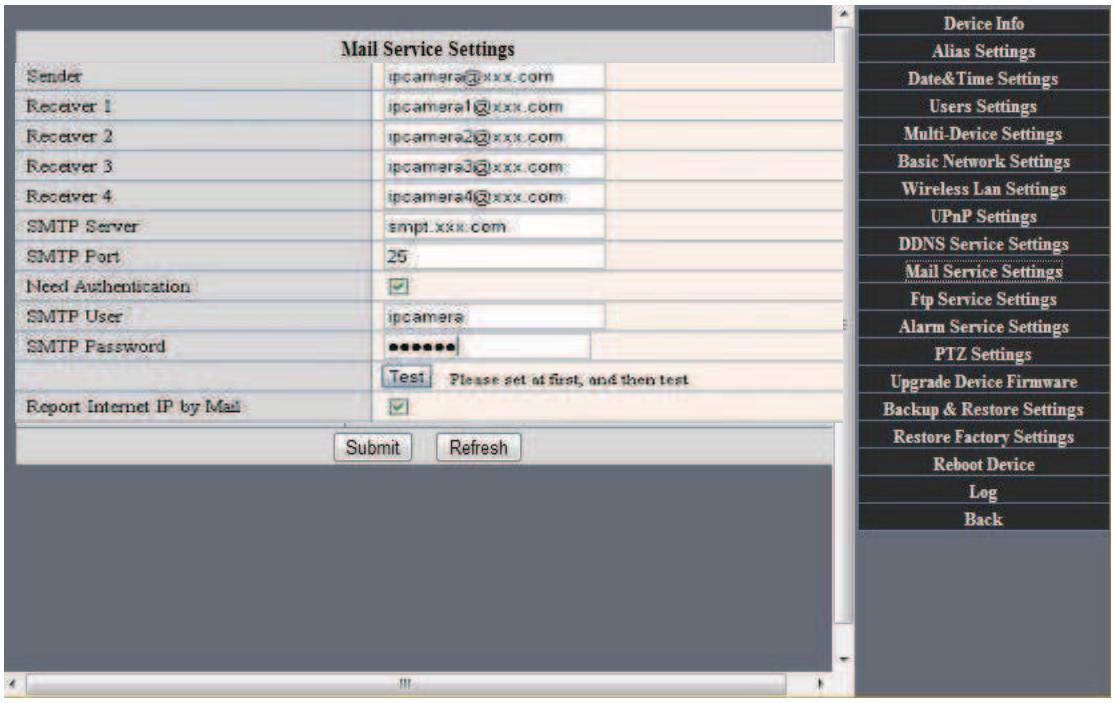
5 The sender is denied by the server. Maybe the server need to authenticate the user, please check it and try again

6 The receiver is denied by the server. Maybe because of the anti-spam privacy of the server

7 The message is denied by the server. Maybe because of the anti-spam privacy of the server

8 The server does not support the authentication mode used by the device

Report Internet IP by Mail: When ipcam power on or Internet IP changed,it will send the internet IP by mail.(for example:IPCAM 's url is http://119.123.207.96:9002). Make sure the port is map to the router correctly by UPNP or Virtual Map function.



Settings the FTP Service.

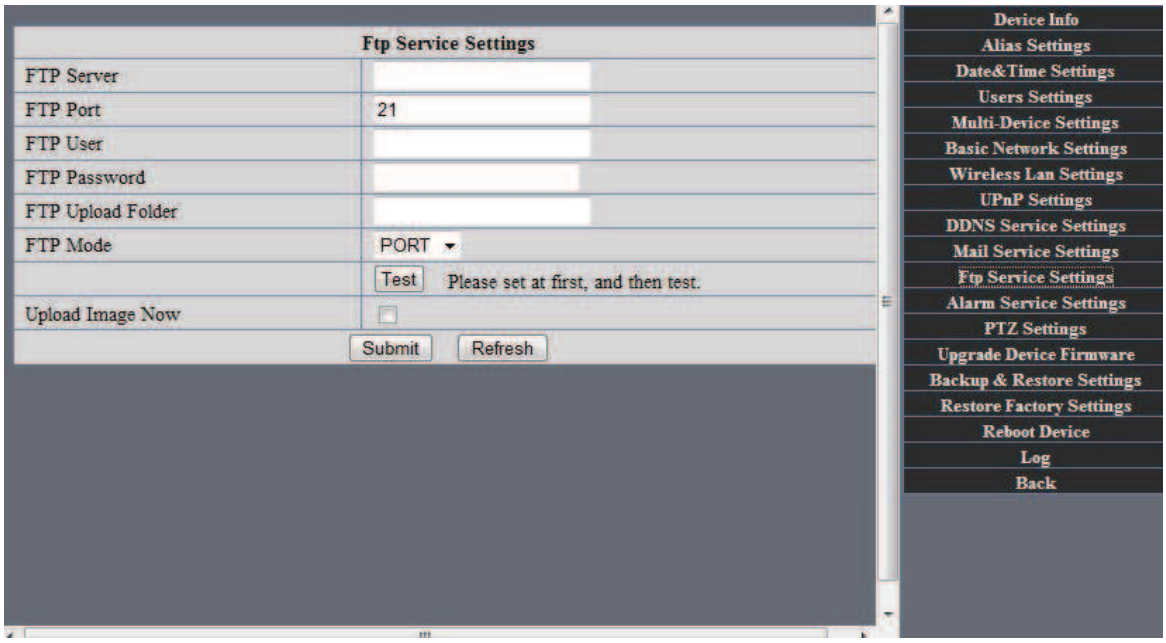
Note: When **Alarm Service Settings**－> **Upload Image on Alarm** is check,the FTP Service takes effect.

FTP Server: the FTP server address.

FTP port: the port usually is 21

FTP Mode: support standard(POST) mode and passive(PASV) mode.

Upload Image Now: it will upload image now when checkbox is not checked.When checked,you can input upload interval(Seconds) .



2.5.5 Motion Detection

Enter Alarm Service Settings page to configure Motion Detection function.

Send Mail on Alarm

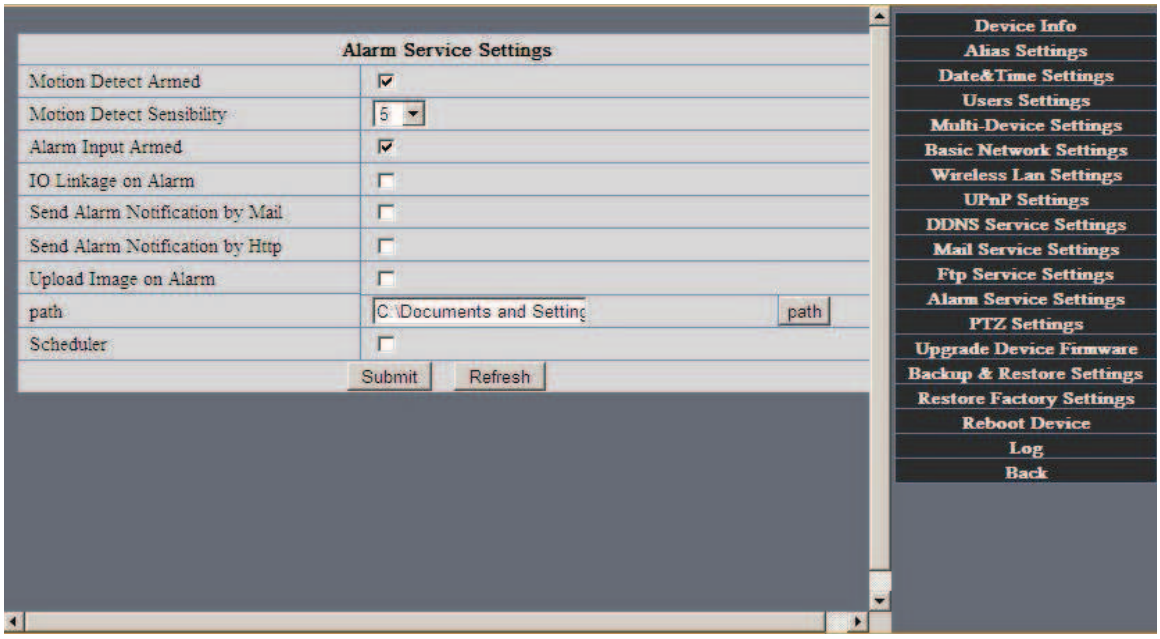
Sent picture and mail inform to customer's e-mail after alarmed.(firstly you should finish the Mail Service Settings.)

Upload Image on Alarm

Enable upload image on alarm and set upload interval(Seconds).

REC automatically and save to PC

When you enable motion detect and open the caemra monitoring page on the PC.If there is an alarm triggered, REC will start automatically for several seconds and save to the PC.



3 HOW TO USE

3.1 Step by step to use

Follow the instructions below to get started after the Camera has been mounted properly. When the IP camera powered on,it will rotate itself and stop to the center.

1) Use Network cable connect IP Camera to LAN.

2) Enter **IP Camera Tool**

to set the basic configuration.(details: 2.1)

3) When IP address of the Camera listed in the Result Field of the **IP Camera Tool,** it means the basic configuiration is completed.

4) set the safety property of IE in the PC when you view it first time.(details: 4.1.4)

5) Camera login(details:2.2)

6) Now you can use the IP Camera as Visitor,operator or Administration in the LAN.

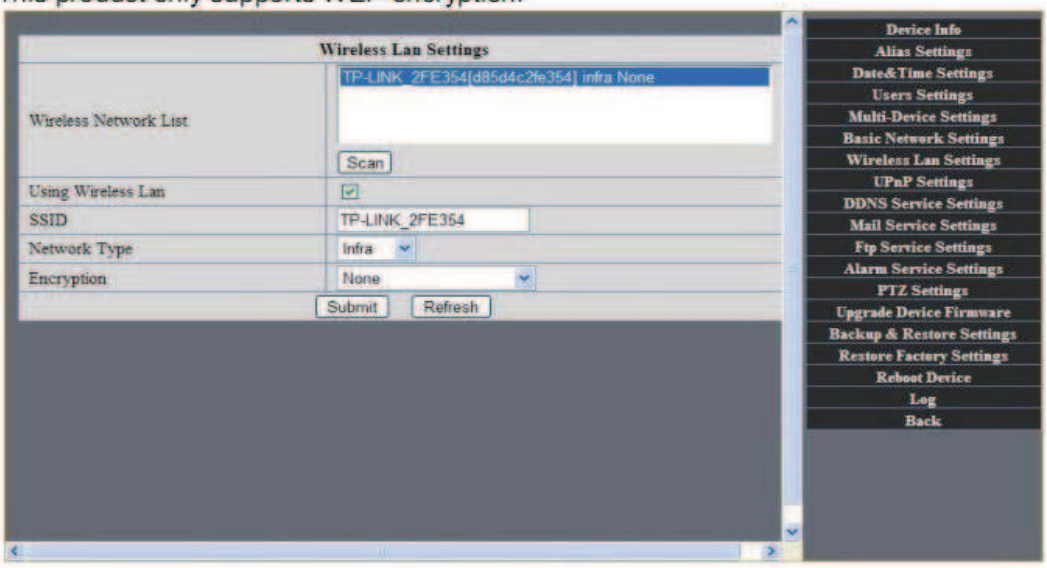
3.2 Setting Wi-Fi of IP Camera

1) To use the wireless functions of the IP Camera, a wireless router like linksys is required.

2) Enter the wireless router setup page(you may see the *wireless router user manual*).To Find out the **SSID,Channel,Security Way**(NONE,WEP),**Authentication Type**, **encryption**.

3) Enter **Wireless Lan Settings** to input contents getted from the wireless router then click **Submit** to reboot the device.

NOTE: This product only supports WEP encryption.



4) Wait at least 30 seconds to unplug the ethernet cable,then unplug the power supply.
5) Plug the power supply making sure that the ethernet is not connected
6) After around 30 seconds, if the LED blinks ,it indicates it is working in wifi mode
7) Camera login.(details:2.2)

3.3 Connected to the Internet through ADSL directly

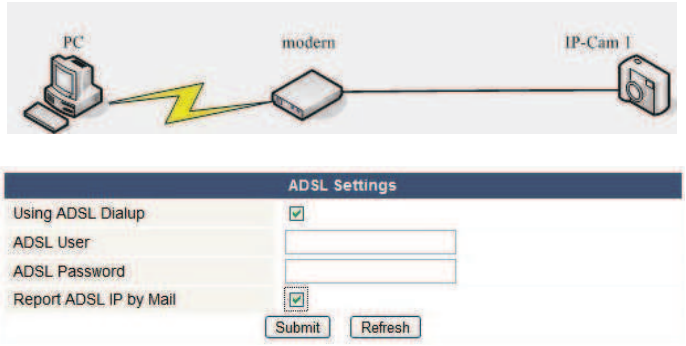


Figure 3.2

1) Use Network cable connect IP Camera to PC
2) Enter **IP Camera Tool** to set the basic configuration.(details: 2.1)
3) login the Camera homepage as Administration and enter **ADSL Settings** page to input ADSL User name and password.
4) Enable DDNS service at the same time and Click **<Submit>** and to reboot the Device.(details: 2.5.3)
5) Connect IP Camera to the ADSL directly, you can access the Camera from Internet by domain name.
NOTE: Please choose the option “Report ADSL IP by Mail”,then it will send ADSL IP to

user by Email.

3.4 Using a router to access the Internet

Using a router to access the Internet by shared ADSL If a router is set for dial-up Internet access,it is not required to set ADSL dial-up account and password on the IP Camera.

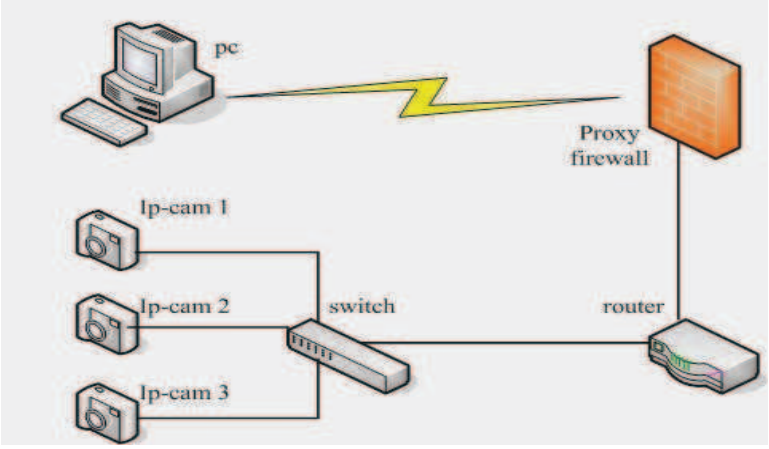


Figure 3.3

1) Use Network cable connect IP Camera to the LAN.
2) Enter **IP Camera Tool** to set the basic configuration.(details: 2.1)
3) login the Camera homepage as Administration.
4) Enter **DDNS Settings Page** and ennable DDNS service .Click **<Submit>** and the device will reboot. (details: 2.5.3)
5) You can access the Camera from Internet by domain name.

3.5 Static IP user

Static IP user is not need to use DDNS for remote access. When finished the setting of the IP Camera in LAN,you can access the Camera directly from Internet by the WAN IP.You can obtain the WAN IP by two ways.

Obtain the WAN IP from some Website
You can discover this easily by opening on a computer using the same connection as the IP camera and entering this address: http://www.whatismyip.com.The page at this address will show you the current WAN IP.

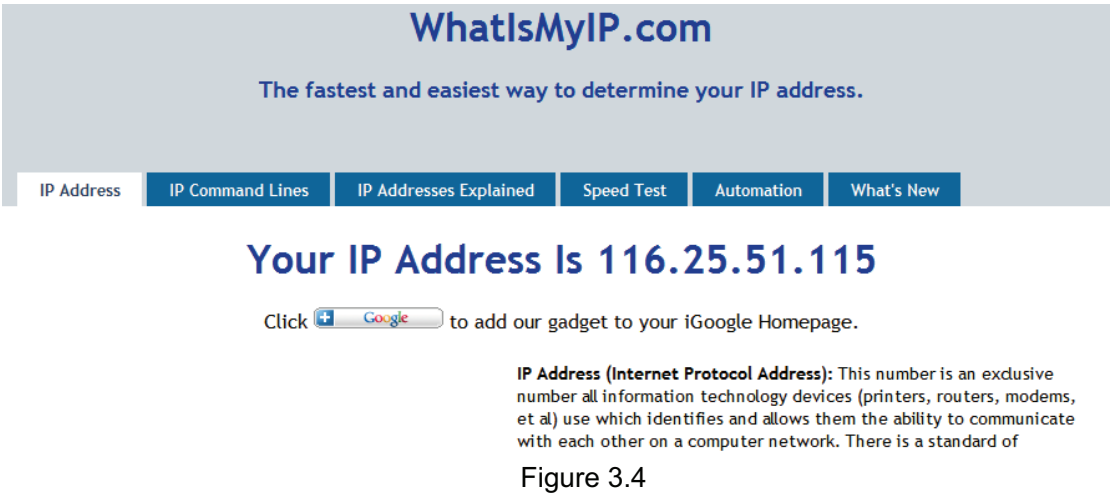

WhatIsMyIP.com
The fastest and easiest way to determine your IP address.
IP Address
IP Command Lines
IP Addresses Explained
Speed Test
Automation
What's New
Your IP Address Is 116.25.51.115
Click Google to add our gadget to your iGoogle Homepage.
IP Address (Internet Protocol Address): This number is an exclusive number all information technology devices (printers, routers, modems, et al) use which identifies and allows them the ability to communicate with each other on a computer network. There is a standard of

Figure 3.4

Obtain the WAN IP address from the router

Take the WRT54G router of LINKSYS for example,

1) Obtain the IP address of the router(LAN gateway address),user name and password for logon to the router from the network administrator,
2) Enter the LAN IP address of the router(LINKSYS WRT54G default:192.168.1.1) in the address bar of the IE to log on to the router;Open the **Status** page to find out the WAN address of the router.In this example,the address is 116.25.51.115.

Figure 3.4

Access the IP Camera from the Internet

User can access the IP Camera from the Internet,Enter WAN IP address + port number in the IE to access IP Camera.For example, Http:// 116.25.51.115:85

Note: Make sure the Port mapping is success.You can do port mapping by two ways:

- Enter setting page of the router which IPCAM connect with to enable UPNP function.Enter IPCAM "**Upnp Settings**" to enable UPNP and make sure the state is "Upnp success".

- If your router has the Virtual Map function.Enter router setting page,add IPCAM's IP and port to the Virtual map list.

3.6 How to use DDNS

When use ADSL, the IP Camera will connect to the Internet through ADSL automatically. For each ADSL reconnection,ISP will re-assign a new IP address for the IP Camera to facilitate the access. DDNS(Dynamic Domain Name Server) can map the dynamic IP address of an IP Camera to a fixed domain name.Therefore,we can access the IP Camera by the fixed domain name whether the IP address changes or not. The IP address is not necessary when you using the DDNS via the domain name to find your network.

1) Go to the website which Provides free domain name,register and apply a free domain name. such as http://www.dyndns.com/(details:4.1.6).

2) login the Camera homepage as Administration and enter"**DDNS Service Settings**"page input the name, password and Host(details: 2.5.3) .Then click **<SUBMIT>** and reboot Device.

3) Re-login the Camera homepage and enter"**DDNS Service Settings**"page to check the **DDNS Status** is **DynDns Succeed** or not**.**

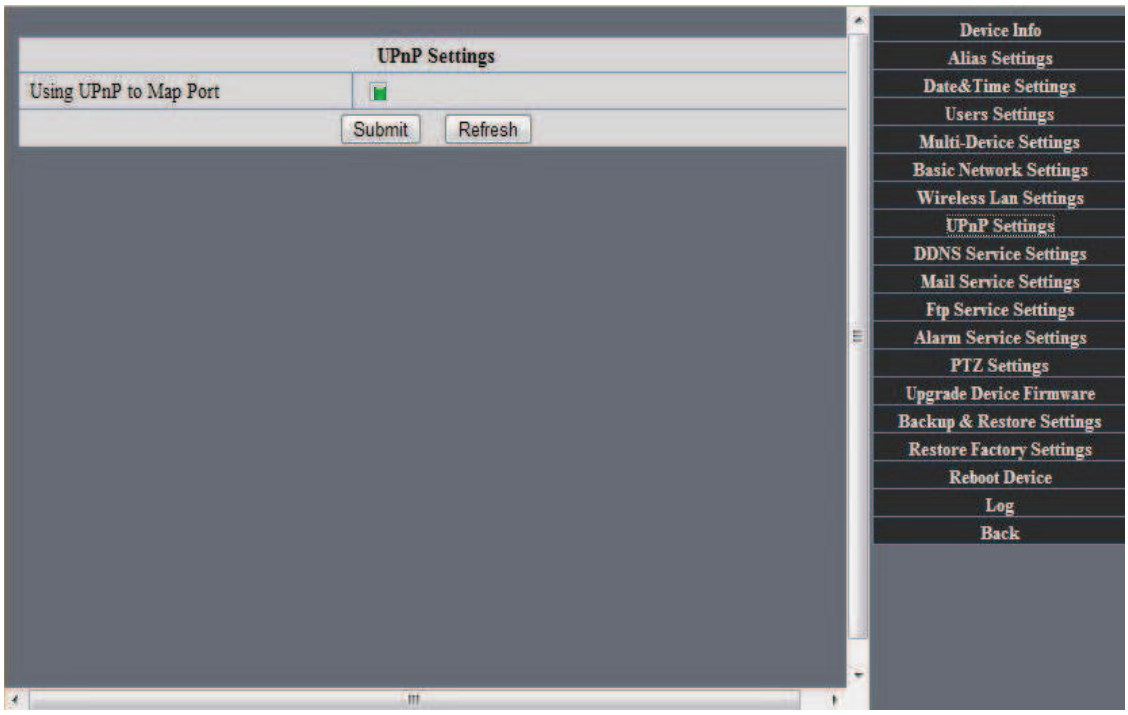
4) Enter"**UPnP Settings**"page,the **UPnP Status** should be **UPnP Succeed.**If the status is not **Succeed,**you may enter "**Basic Network Settings**" page to change Http Port (details: 2.5.5). Then click **<SUBMIT>** and reboot Device.

5) Re-login the Camera homepage to check and make sure the **DDNS Status** and **UPnP Status** is **Succeed**.

6) You only need to enter the domain name(domain name+Port number http://ipcam.kicks-ass.net:81/) in the IE address bar ,the browser will visit the IP Camera.

Wait for several minutes and the IP Camera will dial up to access the Internet automatically, and the communication with the DDNS server is established successfully. In the way, the user can access the IP Camera from a WAN by using the DDNS domain name.

If the gateway settings and DDNS settings have been completed,ener the DDNS dynamic domain name(for example,http://ipcam.vicp.net/,do not add www.) in the address bar of the IE to access the IP Camera.If multiple IP Cameras are connected to the same router,enter DDNS dynamic domain + port number(for example, http://ipcam.vicp.net:85/) in the address bar of the IE to access different IP Cameras.


UPnP Settings
Using UPnP to Map Port
Submit
Refresh
Device Info
Alias Settings
Date&Time Settings
Users Settings
Multi-Device Settings
Basic Network Settings
Wireless Lan Settings
UPnP Settings
DDNS Service Settings
Mail Service Settings
Ftp Service Settings
Alarm Service Settings
PTZ Settings
Upgrade Device Firmware
Backup & Restore Settings
Restore Factory Settings
Reboot Device
Log
Back

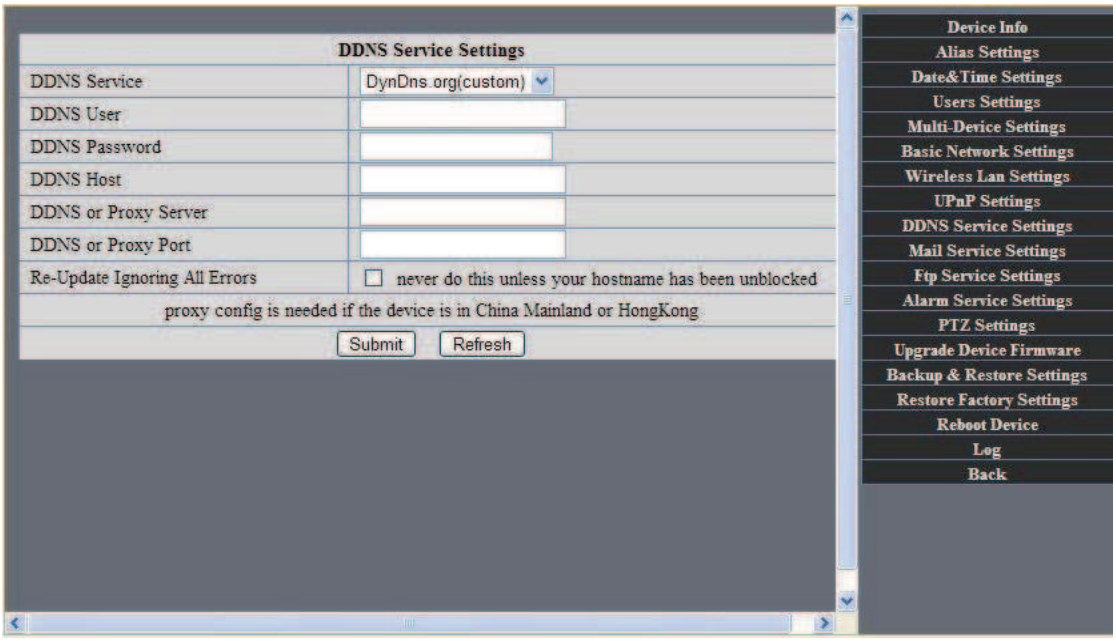

DDNS Service Settings
DDNS Service
DynDns.org(custom)
DDNS User
DDNS Password
DDNS Host
DDNS or Proxy Server
DDNS or Proxy Port
Re-Update Ignoring All Errors
never do this unless your hostname has been unblocked
proxy config is needed if the device is in China Mainland or HongKong
Submit
Refresh
Device Info
Alias Settings
Date&Time Settings
Users Settings
Multi-Device Settings
Basic Network Settings
Wireless Lan Settings
UPnP Settings
DDNS Service Settings
Mail Service Settings
Ftp Service Settings
Alarm Service Settings
PTZ Settings
Upgrade Device Firmware
Backup & Restore Settings
Restore Factory Settings
Reboot Device
Log
Back

Figure 3.5

4 APPENDIX

4.1 Frequently Asked Questions

Note: Any quesetions you would meet,please check Network connections firstly.
Check the working status revealed by the indicators on the network server, hub, exchange and network card. If abnormal, check the network connections.

4.1.1 I have forgotten the administrator username and/or password.

To reset the administrator username and password, Press and hold down the RESET BUTTON for 5 seconds.Release the power button and the username and password will be reset back to the factory default administrator username and password.
Default administrator username: **admin**
Default administrator password: No password

4.1.2 IP Address configuration

Check whether IP address of the IP Camera server shares the same subnet as your work station: Click My Computer > Control Panel>Network & Dial-up Connections > LAN > Attributes >Internet Protocols (TCP/IP), and check IP Address and Subnet Mask. Make sure they are in the same subnet when configuring IP Camera IP address manually.
Unable to access IP Camera via web browser

4.1.3 Network Configuration

Double Check to ensure that your HTTP server software is configured and running properly. If you're running any firewall software, make sure it's allowing inbound connections to port 80,Also,if you happen to be using a cable/DSL router, make sure you've set up port forwarding properly. (consult your router's documentation for more information) .If none of these seem to be the problem, it's also possible that your ISP isblocking inbound connections to port 80 –many IPSs have done this because of internet worms such as Code Red, If this is the case, you 'll have to setup your HTTP server on an alternate port (such as 8080).

4.1.4 No pictures Problems with ActiveX Controller

The video streaming is transmitted by the ActiveX controller.If ActiveX controller isn't installed correctly you will see no video image.There are two way to resolve this problem:
1） Install "IP Camera Tool", ActiveX controller is installed simultaneity（recommendable）.
2）download ActiveX controller and set the safety property of IE in the PC when you view it first time:

"IE" browser→"Tool"→"Internet Proper"→"Security"→"Custom Level"→"ActiveX control and Plug-ins" three options of front should be set to be "Enable", The ActiveX programs read by the computer will be stored.as follows:

Enable:Download unsigned ActiveX controls

Enable:Initialize and script ActiveX controls not marked as safe

Enable:Run ActiveX controls and plu-ins

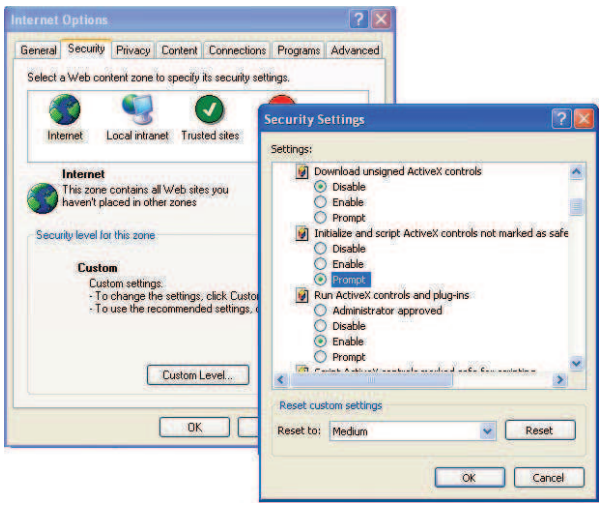


Figure 4.1

4.1.5 Problems with network bandwidth

The image frame rate is subjected to the following factors: 1.network bandwidth; 2. PC performance, network environment and display preference setting (brightness, theme, etc.); 3. the number of visitors (Too many visitors will slow down the image frame rate.); 4. choice of switch or hub (Use a switch for multiple IP Camera Servers rather than a HUB.).

4.1.6 For example: Register procedure from a DDNS web

Step1: enter http://www.dyndns.com/ and **Create Account**

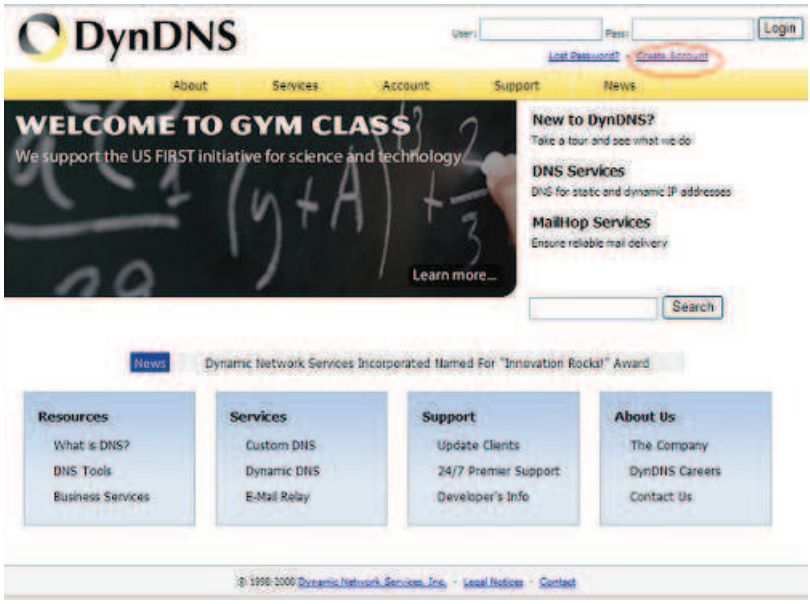


Figure 4.2

Step2: enter your information

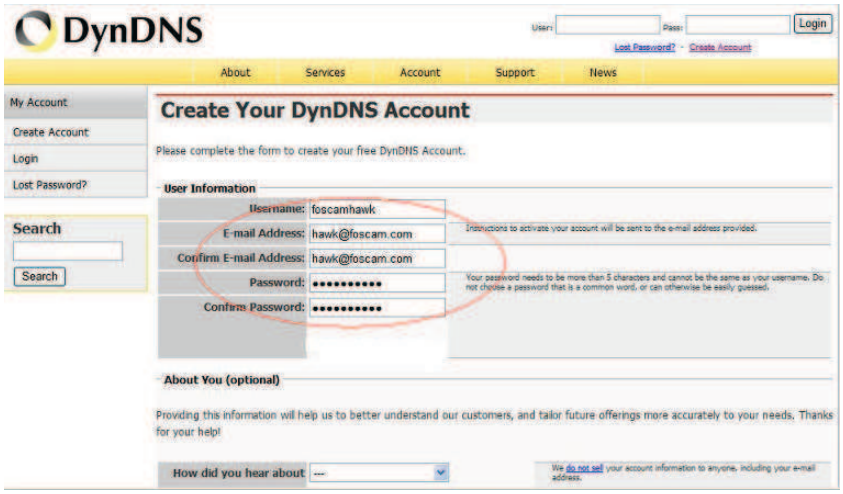


Figure 4.3

Step3: After a minute, you will receive a E-mail from **DynDNS Support** and it will give you a confirmation address

(e.g. https://www.dyndns.com/account/confirm/vXMVT78-KvehydmKMWH5kg)

Step4: When the Account Confirmed, login and start using your account. Choose **Add Host Services**(Figure 4.4) and enter **Add New Hostname** (Figure 4.5)page.

Figure 4.4

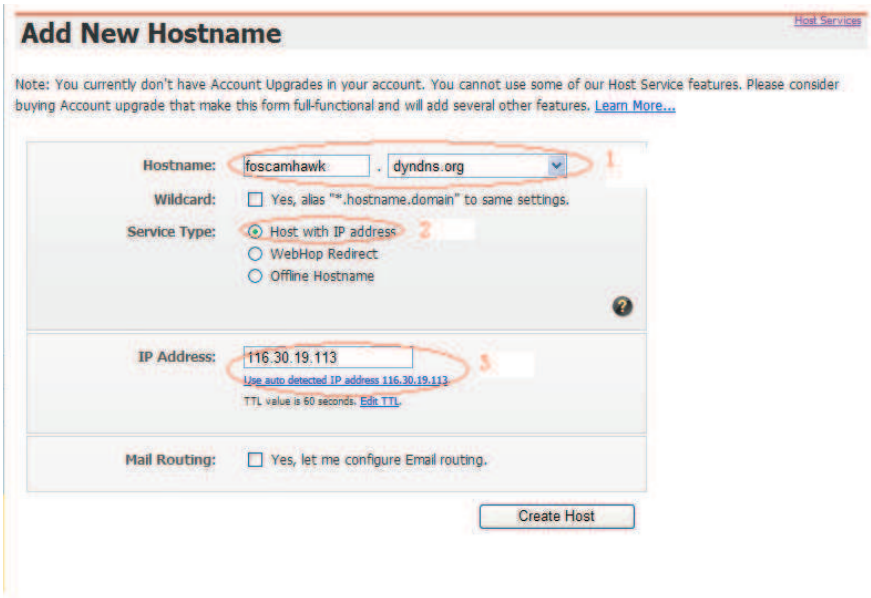

Add New Hostname
Host Services
Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. Learn More...
Hostname:
foscamhawk
dyndns.org
1
Wildcard:
Yes, alias "*.hostname.domain" to same settings.
Service Type:
Host with IP address
2
WebHop Redirect
Offline Hostname
IP Address:
116.30.19.113
3
Use auto detected IP address 116.30.19.113
TTL value is 60 seconds. Edit TTL
Mail Routing:
Yes, let me configure Email routing.
Create Host

Figure 4.5

Step5: On the **Add New Hostname** page.

1) input your Hostname.

2) choose **Host with IP address**

3) click Use auto detected IP address xxx.xx.xx.xxx. Then click **Create Host**.

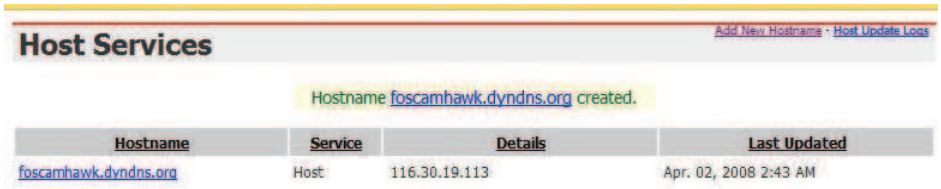


Figure 4.6

Step6: Now you obtained a Dynamic Domain Name(Figure 4.6),and can use it in the **DDNS Service Settings**(details: 2.5.3)

4.1.7 Why pop-up the prompt"Fail to connect to the device…"?

This prompt only appeared in the case of using multiple cameras.
Enter the **Multi-Device Settings** page(login as administrator) to check the Device setting is correct or not.

When one of the multiple cameras disconnected, the color changed to yellow and pop-up the prompt "Fail to connect to the device…".

Figure 4.7

4.1.8 Can't access the IPCAM in the internet?

There are some reasons:
1 ActiveX controller is not installed correctly(see more details:4.1.4).
2 The port IPCAM used is blocked by Firewall or Anti-virus software.Please change a port number and try again.
3 Port mapping is not success.You can do port mapping by two ways:

- Enter setting page of the router which IPCAM connect with to enable UPNP function.Enter IPCAM "**Upnp Settings**" to enable UPNP and make sure the state is "Upnp success".
- If your router has the Virtual Map function.Enter router setting page,add IPCAM's IP and port to the Virtual map list.

4 When use ADSL,the IP is dynamic.You should set DDNS(see more details 3.6 & 4.1.6) and also make sure port mapping success.

4.1.9 Problems of using the firefox browser

I use the firefox explorer to login my device, but the monitoring pages didn't display normally?

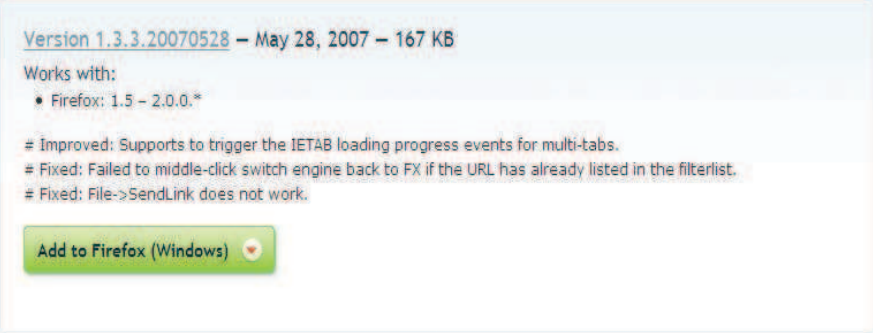
Taking into account security issues, the firefox explorer doesn't support ActiveX controls, but its office provides a plug-in named IE-Tabe for us and which can enable firefox to support ActiveX controls, you can access the website as follows with the firefox explorer:

https://addons.mozilla.org/en-US/firefox/addon/1419

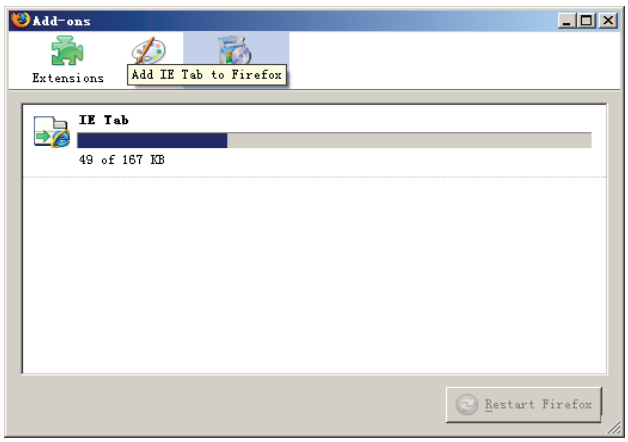
On the download page, select the right version for your browser, download it, then start the installation.

Now, we take the firefox browser whose version is 2.0.0.18 as the example to describe the whole procedure.

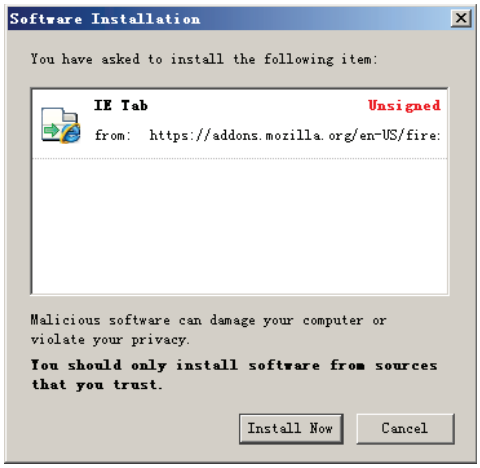
Select the version shown in the chart below


Version 1.3.3.20070528 – May 28, 2007 – 167 KB
Works with:
• Firefox: 1.5 – 2.0.0.*
Improved: Supports to trigger the IETAB loading progress events for multi-tabs.
Fixed: Failed to middle-click switch engine back to FX if the URL has already listed in the filterlist.
Fixed: File->SendLink does not work.
Add to Firefox (Windows)

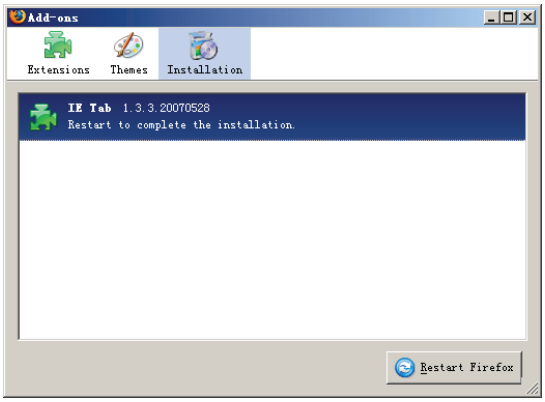
Click "Add to Firefox (Windows)" to start download



Then wait the download to complete, a dialog box shown in the chart below will popup


Software Installation
You have asked to install the following item:
IE Tab
Unsigned
from: https://addons.mozilla.org/en-US/fire:
Malicious software can damage your computer or violate your privacy.
You should only install software from sources that you trust.
Install Now
Cancel

Click “Install Now” button to start installation



In the end click “Restart Frefox” button to restart the browser.

Login your device and locate the monitoring page, click your mouse’s right button, click the new menu item named View page in IE-Tab to login device again.

4.2 Default Parameters

Default network Parameters

IP address: dynamic obtain

Subnet mask:255.255.255.0

Gateway: dynamic obtain

DHCP:Disabled

DDNS:Disabled

Username and password

Default administrator username: **admin**

Default administrator password: No password

4.3 Specification

ITEMS		IPCAM
Image Sensor	Image Sensor	1/4" Color CMOS Sensor
	Disaplay Resolution	640 x 480 Pixels(300k Pixels)
	Lens	f: 6mm, F:2.4 (IR Lens)
	Mini. Illumination	0.5Lux
Lens	Lens Type	Glass Lens
	Viewing Angle	67Degree
Video	Image Compression	MJPEG
	Image Frame Rate	15fps(VGA),30fps(QVGA)
	Resolution	640 x 480(VGA), 320 x 240(QVGA)
	Flip Mirror Images	Vertical / Horizontal
	Light Frequency	50Hz, 60Hz or Outdoor
	Video Parameters	Brightness, Contrast
Communication	Ethernet	One 10/100Mbps RJ-45
	Supported Protocol	HTTP,FTP,TCP/IP,UDP,SMTP,DHCP,PPPoE,DDNS, UPnP,GPRS
	Wireless Standard	IEEE 802.11b/g
	Data Rate	802.11b: 11Mbps(Max.) 802.11g: 54Mbps(Max.)
	Wireless Security	64/128-bit WEP Encryption
Physical	Pan/Tilt Angle	Horizontal:120° & Vertical: 90°
	Infrared Light	4 IR LEDs,Night visibility up to 5 metres
	Alarm Input	1 Channel on/off input
	Alarm Output	1 Channel relay output
	Dimension	110(L) x110(W) x110mm(H)
	Gross Weight	705g (Color Box Size:204x189x124mm)
	Net Weight	400g (accessories included)
Power	Power Supply	DC 5V/2.0A
	Power Consumption	5 Watts (Max.)
Environment	Operate Temper.	0° ~ 55°C (14°F ~ 122°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temper.	-10°C ~ 60° (14°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
PC Requirements	CPU	2.0GHZ or above (suggested 3.0GHz)
	Memory Size	256MB or above (suggested 1.0GHz)
	Display Card	64M or above
	Supported OS	Microsoft Windows 2000/XP/Vista
	Browser	IE 5.0,IE 6.0, IE7.0, IE8.0, firefox2.0, firefox3.0 or other standard browsers
Certification	CE,FCC	
Warranty	Limited 1-year warranty	

5 OBTAINING TECHNICAL SUPPORT

While we hope your experience with the IPCAM network camera is enjoyable and easy to use, you may experience some issues or have some questions that this User's Guide has not answered.

To obtain the latest information and support for your Observer network camera, please visit our webpage for additional FAQ's and troubleshooting tips.